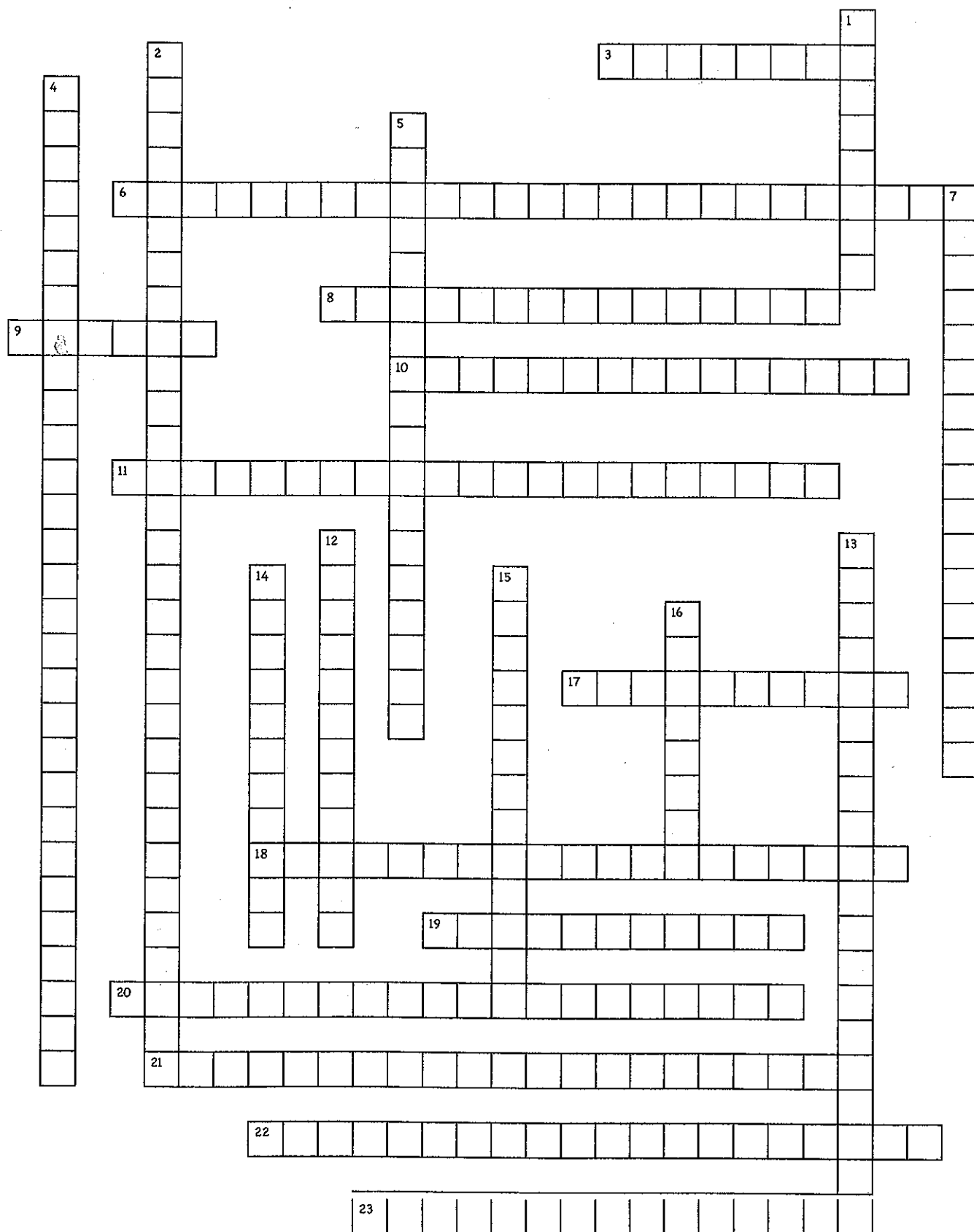


Points of concurrency and Triangle Inequalities



Points of concurrency and Triangle Inequalities

ACROSS

- 3 The perp. segment from a vertex to the opposite side (or extension of a side).
- 6 The sum of the lengths of any 2 sides of a triangle is greater than the length of the 3rd side.
- 8 Proof involving a geometric figure in a coordinate plane where variables represent the coordinates of the points for all figures of that type.
- 9 Segment from a vertex to the midpoint of the opposite side (to construct it: use fi shy, perp bisector, midpt, and draw line to opp. vertex).
- 10 Three or more lines are said to be concurrent if they intersect at a single point.
- 11 In a plane, if a point is on the perpendicular bisector of a segment, then it is equidistant from the endpoints of the segment.
- 17 When three or more lines, rays, or segments intersect at the same point.
- 18 The perp. segment from a vertex to the opposite side (or extension of a side).
- 19 Special name for point of concurrency for the altitudes of a triangle.
- 20 Is a form of proof that establishes the truth or validity of a proposition by showing that the proposition being false.
- 21 Segment that joins the midpoints of 2 sides of a triangle.
- 22 If 2 sides of 1 triangle are congruent to 2 sides of another triangle, but the 3rd side of the 1st triangle is larger than the 3rd side of the 2nd triangle, then the included angle of the 1st triangle is greater than the included angle of the 2nd triangle.
- 23 If a segment bisects the vertex angle of an isosceles triangle, then that segment is perpendicular a bisector of the base.

DOWN

- 1 Special name for the point of concurrency for medians, always in the interior (all medians in a triangle are congruent).
- 2 The measure of an exterior angle of a triangle is greater than the measure of either remote interior angle.
- 4 If 2 angles of a triangle aren't congruent, then the longer side lies opposite the larger angle.
- 5 The point of intersection for three (or more) such segments.
- 7 If a segment bisects the vertex angle of an isosceles triangle, then that segment is perpendicular a bisector of the base.
- 12 Special name for the point of concurrency fro the perpendicular bisectors of a triangle.
- 13 If 2 sides of 1 triangle are congruent to 2 sides of another triangle, but the included angle of the first triangle is larger than the included angle of the second triangle, then the third side of the first triangle is greater than the third side of the se
- 14 When a point is the same distance from two or more geometric figures.
- 15 If a point is on the angle bisector of an angle, then it is equidistant from the 2 sides of the angle.
- 16 Special name for the point of concurrency for angle bisectors of a triangle.

Points of concurrency and Triangle Inequalities

